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DP-203 Examcollection Questions Answers - DP-203 Question Explanations

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q187-Q192):

NEW QUESTION # 187

You are responsible for providing access to an Azure Data Lake Storage Gen2 account.

Your user account has contributor access to the storage account, and you have the application ID and access key.

You plan to use PolyBase to load data into an enterprise data warehouse in Azure Synapse Analytics.

You need to configure PolyBase to connect the data warehouse to storage account.

Which three components should you create in sequence? To answer, move the appropriate components from the list of components to the answer area and arrange them in the correct order.

Components**Answer Area**

| |
|------------------------------|
| a database scoped credential |
| an asymmetric key |
| an external data source |
| a database encryption key |
| an external file format |

**Answer:**

Explanation:

Answer Area

| |
|------------------------------|
| a database scoped credential |
| an external data source |
| an external file format |

1 - a database scoped credential

2 - an external data source

3 - an external file format

NEW QUESTION # 188

You are designing an Azure Databricks cluster that runs user-defined local processes. You need to recommend a cluster configuration that meets the following requirements:

* Minimize query latency.

* Maximize the number of users that can run queues on the cluster at the same time and Reduce overall costs without compromising other requirements Which cluster type should you recommend?

- A. High Concurrency with Auto Termination
- **B. High Concurrency with Autoscaling**
- C. Standard with Autoscaling
- D. Standard with Auto termination

Answer: B

Explanation:

A High Concurrency cluster is a managed cloud resource. The key benefits of High Concurrency clusters are that they provide fine-grained sharing for maximum resource utilization and minimum query latencies.

Databricks chooses the appropriate number of workers required to run your job. This is referred to as autoscaling. Autoscaling makes it easier to achieve high cluster utilization, because you don't need to provision the cluster to match a workload.

Reference:

<https://docs.microsoft.com/en-us/azure/databricks/clusters/configure>

NEW QUESTION # 189

You have a table named SalesFact in an enterprise data warehouse in Azure Synapse Analytics. SalesFact contains sales data from the past 36 months and has the following characteristics:

Is partitioned by month

Contains one billion rows

Has clustered columnstore indexes

At the beginning of each month, you need to remove data from SalesFact that is older than 36 months as quickly as possible.

Which three actions should you perform in sequence in a stored procedure? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

| Actions | Answer Area |
|-------------------------------------------------------------------------------------------|-------------|
| Switch the partition containing the stale data from SalesFact to SalesFact_Work. | |
| Truncate the partition containing the stale data. | |
| Drop the SalesFact_Work table. | |
| Create an empty table named SalesFact_Work that has the same schema as SalesFact. | |
| Execute a DELETE statement where the value in the Date column is more than 36 months ago. | |
| Copy the data to a new table by using CREATE TABLE AS SELECT (CTAS). | |



Answer:

Explanation:

Actions

Switch the partition containing the stale data from SalesFact to SalesFact_Work.

Truncate the partition containing the stale data.

Drop the SalesFact_Work table.

Create an empty table named SalesFact_Work that has the same schema as SalesFact.

Execute a DELETE statement where the value in the Date column is more than 36 months ago.

Copy the data to a new table by using CREATE TABLE AS SELECT (CTAS).

Answer Area

Create an empty table named SalesFact_Work that has the same schema as SalesFact.

Switch the partition containing the stale data from SalesFact to SalesFact_Work.

Drop the SalesFact_Work table.

Explanation

Create an empty table named SalesFact_Work that has the same schema as SalesFact.

Switch the partition containing the stale data from SalesFact to SalesFact_Work.

Drop the SalesFact_Work table.

Step 1: Create an empty table named SalesFact_Work that has the same schema as SalesFact.

Step 2: Switch the partition containing the stale data from SalesFact to SalesFact_Work.

SQL Data Warehouse supports partition splitting, merging, and switching. To switch partitions between two tables, you must ensure

that the partitions align on their respective boundaries and that the table definitions match.

Loading data into partitions with partition switching is a convenient way stage new data in a table that is not visible to users the switch in the new data.

Step 3: Drop the SalesFact_Work table.

Reference:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-tables-partition>

NEW QUESTION # 190

You have an Azure data factory named ADF1.

You currently publish all pipeline authoring changes directly to ADF1.

You need to implement version control for the changes made to pipeline artifacts. The solution must ensure that you can apply version control to the resources currently defined in the UX Authoring canvas for ADF1.

Which two actions should you perform? Each correct answer presents part of the solution
NOTE: Each correct selection is worth one point.

- A. From the UX Authoring canvas, select Set up code repository
- B. Create a Git repository
- C. Create a GitHub action
- D. From the Azure Data Factory Studio, run Publish All.
- E. Create an Azure Data Factory trigger
- F. From the UX Authoring canvas, select Publish

Answer: A,B

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/source-control>

NEW QUESTION # 191

You have an Azure event hub named retailhub that has 16 partitions. Transactions are posted to retailhub. Each transaction includes the transaction ID, the individual line items, and the payment details. The transaction ID is used as the partition key.

You are designing an Azure Stream Analytics job to identify potentially fraudulent transactions at a retail store. The job will use retailhub as the input. The job will output the transaction ID, the individual line items, the payment details, a fraud score, and a fraud indicator.

You plan to send the output to an Azure event hub named fraudhub.

You need to ensure that the fraud detection solution is highly scalable and processes transactions as quickly as possible.

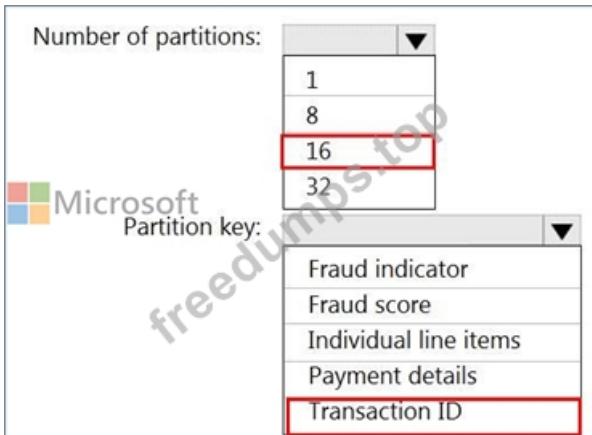
How should you structure the output of the Stream Analytics job? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

The screenshot shows the Azure Stream Analytics 'Output' configuration dialog. It has two main sections: 'Number of partitions:' and 'Partition key:'. The 'Number of partitions:' dropdown is set to 16. The 'Partition key:' dropdown is set to 'Transaction ID'. Below these, there is a table titled 'Output' with a single row. The row contains five columns: 'Fraud indicator', 'Fraud score', 'Individual line items', 'Payment details', and 'Transaction ID'. The 'Fraud indicator' column is highlighted with a blue background.

Answer:

Explanation:



Reference:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-features#partitions>

NEW QUESTION # 192

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